NETIO
Networked power sockets
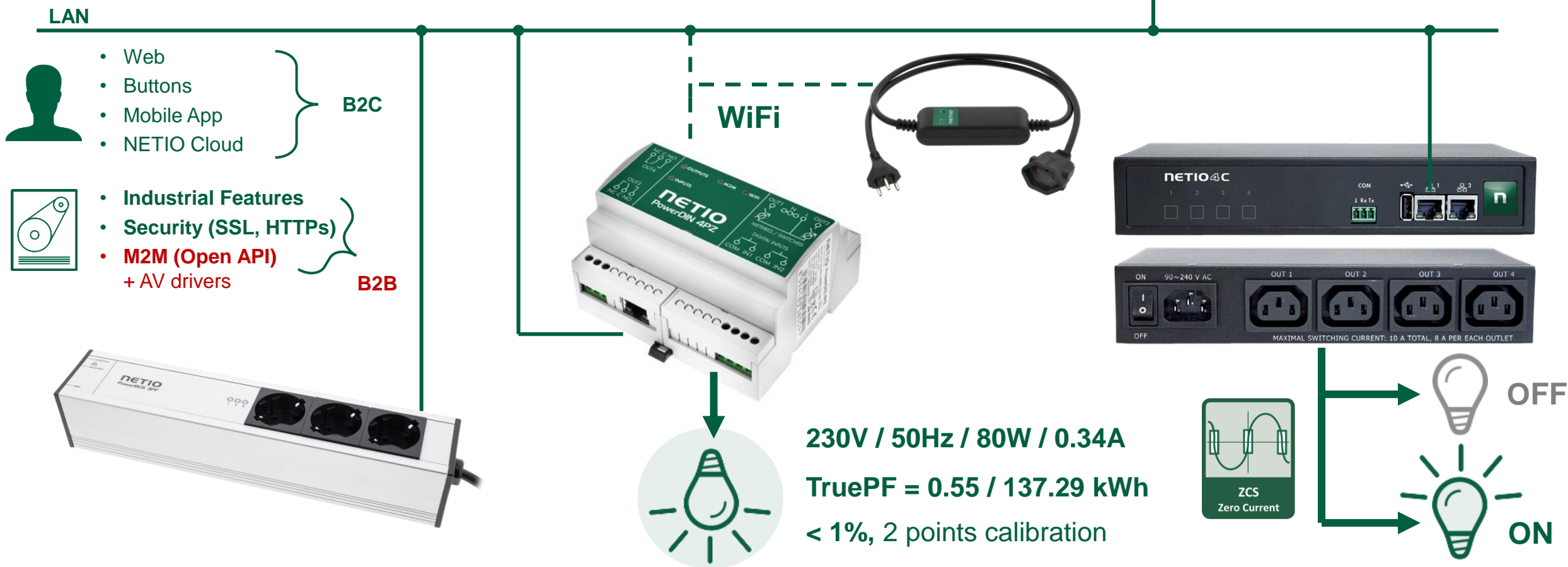
Wireless power socket applications 2019-21

NETWORKED POWER SOCKETS

Devices to measure energy consumption and switch ON / OFF the power socket over the network.

NETIO
Networked power sockets

LAN

- Web
- Buttons
- Mobile App
- NETIO Cloud

B2C

- **Industrial Features**
- **Security (SSL, HTTPs)**
- **M2M (Open API)**
  + AV drivers

B2B

WiFi

230V / 50Hz / 80W / 0.34A

TruePF = 0.55 / 137.29 kWh

< 1%, 2 points calibration

ZCS
Zero Current

OFF

ON

NETIO products: Overview

NETIO PowerPDU 8QS

NETIO PowerPDU 4C

NETIO PowerPDU 4PS

5 - 15 € / Year / Device
NETIO Cloud

PowerCable family 101x

PowerBOX 3Px / 4Kx

PowerDIN 4PZ

NETIO
Networked power sockets

PowerCable IQRF

IQRF controlled power socket by NETIO products

Energy metering (kWh, A, V, W, HZ, TPF)

DPA sensors standards compatible

IQRF network

POWER MEASUREMENT

ROBUST BODY

ZCS Zero Current

IOC Independent IO

PowerUp state

Industrial

IT (REST)

Cloud MQTT

▶ IQRF

OEM

FR Type E

DE (Type F) SCHUKO

Shops: Digital signage

The customer is technical supervisor of display / navigation ads in several hundred of stores in France and Spain.
AV devices are typically not available in a reliable 24/7 version.

Power consumption metering often detects outage of media player or TV even before technical support get a call for from store.

The advantage is the ability to control NETIO devices from the NETIO cloud service immediately and without additional investment.

Use case: Shared Laboratories – budgeting

You can analyze equipment usage by it's power consumption..

Simple WiFi / IQRF power socket with metering will provide you usage charts..

Remote restarts: Logistic pickup boxes

Delivery kiosks for non-postal services can be located far outside of civilization.
For example, in the mountain valleys of Switzerland.

Sometimes lightning strikes or a storm rages nearby. NETIO PowerPDU 4C is ideal solution to restart the kiosk = everything works even without the need for local service.

It requires HTTPS security.

Use case: Electrical water boilers in French Hotel park

Hotel park of independent villas.

- Each house has it's own water heating electric boiler.
- Every boiler was originally **switched On for 200 days** from year.

- Average usage of the villa was around 100 days. = 50% of energy was wasted..

- 18m^3 of water is heated every day for nothing!

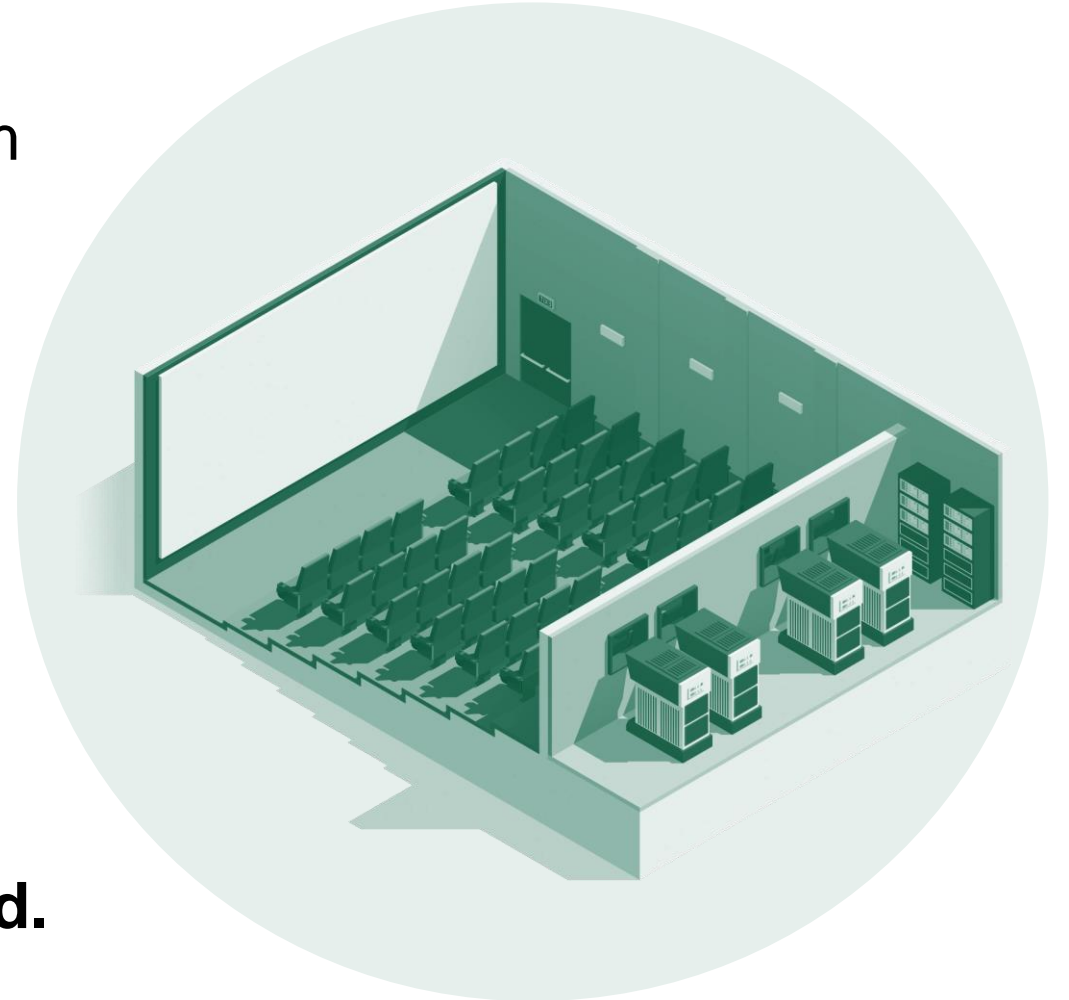- HiBou project is switching 230V power for each boiler only when the villa is occupied.

Movie theaters (kino)

The audio system in a cinema viewing room of a multiplex consumes electricity even when no film is being shown and no music is playing.

The customer uses NETIO 4 DE to disconnect individual parts of the audio system. When there is no show, there is no need to power the audio system.

Approximately 38% of electricity is saved.

Use case: Freezers in hospitals

There are thousands freezers in one hospital.

- Each one should be monitored for case of the failure and biological material inside will be damaged.
- Electrical power alert you about the coming soon problem before the trouble happened.

- Power consumption of freezers can be from 15€ / year up to 50-60€ / year.

- But facility manager have there hundreds of them and don't know whis one of them should be replaced by new one..
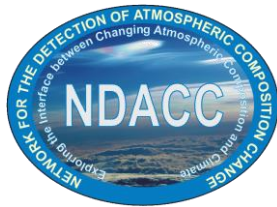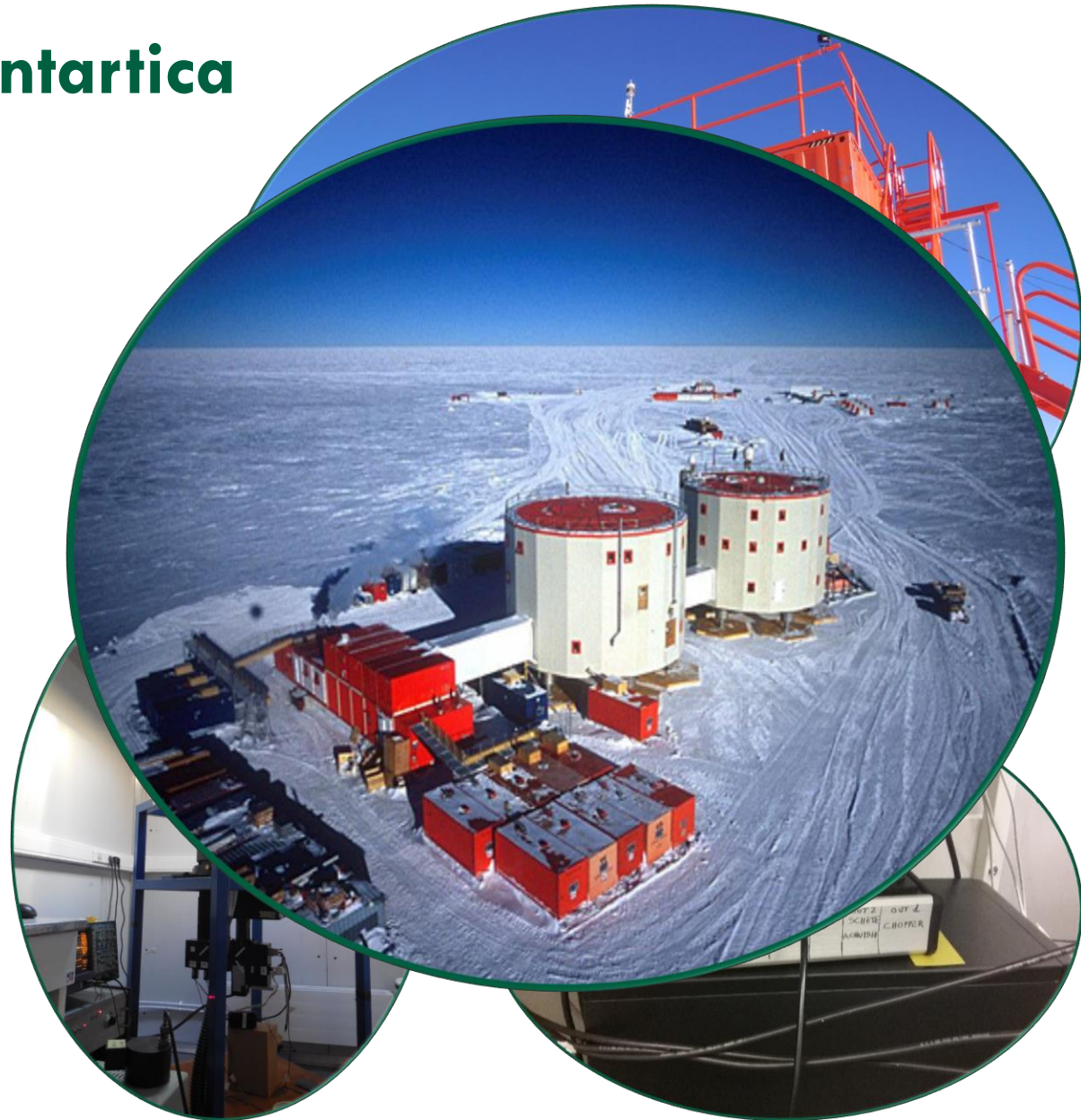

NETIO

NETIO in the Concordia base in Antartica

Even in polar station in Antartica is used NETIO to remote control power for scientific experiments.

You don't have to travel 400 km or 400m to the remote technology room..

Italian Lidar Observatory at Concordia is satisfied with NETIO technology used in extreme conditions.

THANK YOU
FOR YOUR ATTENTION

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